

What is claimed is:

1. A motor comprising:

a rotor;

an armature coil;

a conductive case for accommodating said rotor;

a member for grounding said case;

a shaft having a portion extending outward from said case;

a bearing fixed to said case for rotatably supporting said shaft;

means, including a conductive member in contact with said shaft and said case, for pressing said conducting member between said shaft and said case.

2. The motor as claimed in claim 1, wherein

said means comprises a resilient contact member integrated with said case.

3. The motor as claimed in claim 2, wherein

said means comprises a parallel portion extending in the direction in parallel with said shaft and a slant portion slanting toward the center of said shaft.

4. The motor as claimed in claim 3, further comprising

a housing for fixing said case, wherein

said means further comprises a disk portion

00755410-0210

SUB
A2

held between said case and said housing.

SUB
A3

5. The motor as claimed in claim 4, wherein
said ring portion comprises a plurality of slanted spring
members.

6. The motor as claimed in claim 3, wherein
said motor further comprises a noise suppressing circuit
having a pair of noise suppressing coils connected in series
with said armature coil and a capacitor connected in parallel
with said pair of noise suppressing coils.

7. The motor as claimed in claim 4, wherein
said motor further comprises a noise suppressing circuit
having a pair of noise suppressing coils connected in series
with said armature coil and a capacitor connected in parallel
with said pair of noise suppressing coils.

8. The motor as claimed in claim 1, wherein
said means comprises a resinous bearing holder for
holding said bearing,
said bearing has a spherical outer surface, and
said bearing holder has a spherical inner surface to
which said bearing is fitted.

9. The motor as claimed in claim 1, wherein
said means comprises a conductive bearing holder fixed

to said case and having a resilient contact member in contact with said bearing.

10. The motor as claimed in claim 9, further comprising a magnetic core and a permanent magnet disposed opposite said magnetic core to magnetically link with each other, wherein said means comprises said magnetic core and said permanent magnet disposed to generate a magnetic force to press said contact member against said bearing.

11. The motor as claimed in claim 1, wherein said means comprises said case as said contact member.

12. The motor as claimed in claim 11, further comprising a magnetic core and a permanent magnet disposed opposite said magnetic core to magnetically link with each other, wherein said means comprises said magnetic core and said permanent magnet disposed to generate a magnetic force to press said contact member against said bearing.

13. The motor as claimed in claim 1, wherein said bearing is directly fixed to said case, said shaft has a collar, and said means comprises a spring washer held between said bearing and said collar.

14. The motor as claimed in claim 13, further comprising

a bearing-holding washer having a resilient projecting member,
wherein

said means comprises resilient projecting member.

15. The motor as claimed in claim 13, further comprising
a housing for fixing said case, wherein

said means further comprises a disk portion held between
said case and said housing.

16. The motor as claimed in claim 15, wherein

said disk portion comprises a plurality of slanted spring
members.

17. The motor as claimed in claim 1, further comprising
a conductive shield member disposed between said shaft and said
case, wherein

said means comprises said shield member.

18. The motor as claimed in claim 1, wherein

said motor further comprises a noise suppressing circuit
having a pair of noise suppressing coils connected in series
with said armature coil and a capacitor connected in parallel
with said pair of noise suppressing coils.

add
a4